

EcoHealth & One Health capacity building in Southeast Asia – an overview with focus on ILRI's work

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On behalf of the EcoZD team

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Presentation outline

1. ILRI EcoZD

- Background/Case studies & EcoHealth Resource Center

2. Comparison of selected One Health/Eco Health (OH/EH) initiatives in the region

3. Lessons learned/reflections/what needs more attention

Ecosystem Approaches to the Better Management of Zoonotic Emerging Infectious Diseases in Southeast Asia (EcoZD)

➤ General objective:

Increase the EcoHealth capacity in SE Asia targeting the risks and impacts of Zoonotic Emerging Infectious Diseases (ZEIDs) and how feasible options can be best implemented

➤ 2008 – 2013 (papers & post EcoZD evaluation ongoing)

➤ ***‘Learning by Doing’*** of EH approach; also new for ILRI team

➤ Regional: 6 countries



Key components

- Innovative **Eco Health research** in 6 countries (case studies)
 - Trans-disciplinary collaboration between institutions & teams –
 - **New for most of the team members**
- Establishment of two **Eco Health Resource Centres**
 - Chiang Mai University (CMU), Thailand
 - Universitas Gadjah Mada (UGM), Indonesia
- **Appraisal & Consultative Process**
 - Outcome Mapping: demonstrate behaviour changes
- **Networking** with other OH, EH initiatives



ILRI EcoZD – 6 country teams & case studies

Thailand/Vietnam: Model of **Hygienic Small Scale Poultry Slaughter House**
Various institutions, Livestock Services, MoH, Universities, PhD student

Cambodia: Zoonotic Causes of **Acute Bloody Diarrhoea** in rural Cambodia
4 Institutes (Livestock/AH and Health)

Vietnam: **Zoonoses priority ranking** at Provinces in Southern Vietnam
(**Leptospirosis** in pigs and humans), 3 *Institutes (PH and livestock)*

China (Yunnan): Prevention and Control of **Brucellosis & Toxoplasmosis**
- 4 Institutions/Universities involved

Indonesia: Study on **Rabies Control** in Bali (dog ecology and behavior)
4 Institutions/NGO & 1 Universities

Laos: Study of **smallholder pig system** in lowland and upland
(zoonoses & production diseases), 3 institutions & 1 University



Experiences from EcoZD - challenges

- Time commitment of teams & partners
- Junior *versus* senior
- “Language – lost in translation”
 - e.g. EH (Bahasa Indonesia) & English skills varied widely
- Identification of a common research interest (e.g. China)
 - sometimes “painful” and time consuming, strong consultative process required
- Social science vs. biometric science background
 - Social science involvement remained a constant challenge
 - Qualitative vs. quantitative research



Experiences from EcoZD - challenges

- Continuous aspiration of EH, how to keep track
- Ensure continued engagement of various partners
- Two-dimensional capacity-building requirement
 - Technical (proposal writing/implementation/methodological)
 - EHRC concept
 - New ideas emerged – e. g. EHRC and EH manual
 - Analyze and synthesize quantitative and qualitative results
- How to share credits
- Policy engagement
- Sustainability



Potential solutions

- Flexible adaptive/consultative approach vs. *carte blanche*
- Continues “Learning by doing” experience
- Considerable and continued mentoring required to ensure an EH approach, adjusted by specific team needs
- Incentives, e.g. publications, conferences, accepted proposals



Case study: Brucellosis and Toxoplasmosis in Yunnan

Issues:

- 4 institutions with different priorities, also located in different places (counties)
- strong silo thinking... , issues on common research interest (e.g. TB, Bruc, Toxo, HPAI) & budget sharing
- considerable language barriers



Solution:

- local EH expert to provide technical assistance
- sufficient time to address challenges and build trust
- Get the team excited about new tools (e.g. FGD)
- Incentive: invited by FAO to Beijing to present results
- Extended networking (e.g. EHRC, CMU and PE)

➤ Finally one of the best teams

Old habits versus new habits

China team



FGD in the commercial dairy cattle farm and the village, Yiliang, April 2012

Eco Health (One Health) Resource Centre



EcoHealth-OneHealth Resource
center at Chiang Mai University
(since Oct 2010)

Capacity building (EH related courses)
Research (various case studies)
Communication/networking

EcoHealth Resource center at Universitas
Gadja Mada (since Jan 2011)

Eco Health – One Health Resource Centre, CMU

Challenges & solutions

- **Limited understanding of EH**
 - Lecture series and seminars
- **How to ensure participation and motivation of faculty members to do EH research**
 - Motivate and involve just few interested individuals (2-3 faculties) rather than trying to get “as much as possible”
 - Common research interest
 - Peer reviewed publications - share credits
- **Sustainability of the center**, How to ensure continued operations in the absence of direct external funding
 - Linking the center to other initiatives
 - OH networks
 - Participatory Epidemiology



EcoZD – visible outputs



Engaging stakeholders to manage emerging zoonotic diseases in Southeast Asia

Jeffrey Gilbert, Della Grace, Fred Unger, Lucy Lapar, Rainer Assé, Koropin Tohtubtiang, Khieu Borin, Yang Guorong, Winda Digna, Mai Van Hiep, Suwit Chotimun and Amanda Wyatt



Outcomes in building capacity and strengthening networks: Ecohealth in Southeast Asia

Jeffrey Gilbert, Della Grace, Fred Unger, Lucy Lapar, Rainer Assé, Koropin Tohtubtiang, Khieu Borin, Yang Guorong, Winda Digna, Mai Van Hiep, Suwit Chotimun, Tongkarn Meeyam, Dyah Ayu Widiastih and Amanda Wyatt



Increasing awareness of zoonotic diseases among health workers and rural communities in Southeast Asia

Jeffrey Gilbert, Della Grace, Fred Unger, Lucy Lapar, Rainer Assé, Koropin Tohtubtiang, Khieu Borin, Yang Guorong, Winda Digna, Mai Van Hiep and Amanda Wyatt




Optimizing the Rabies Control Program in Bali through Understanding Dog Ecology and Relation of Dog with Society


Moving Knowledge into Action


In 2008, Bali was struck by rabies. Since then, the rabies outbreak in Bali has cost more than 13 million dollars and caused more than 145 human deaths. Significant financial and human resources have been invested in managing rabies on the island.



Risk assessment for food safety in Vietnam

ECOHEALTH MANUAL





EHRC-CMU

EcoHealth - OneHealth Resource Centre

Chiang Mai University

Now we are available online

<http://ehrc.vet.cmu.ac.th/>

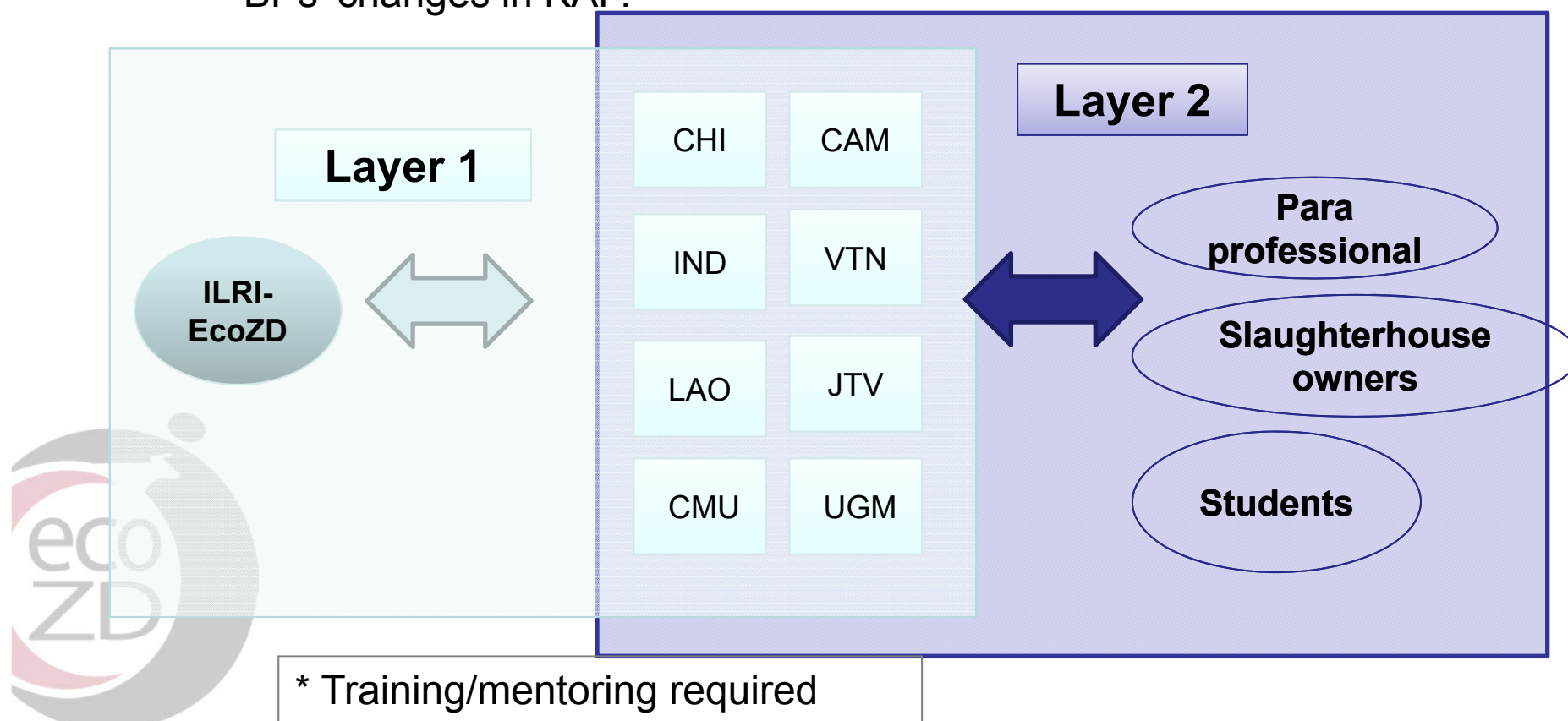


EcoZD - Outcome mapping as M&E tool

A Two-layer process

Layer 1: Relationship between EcoZD project & 8 teams to influence teams' changes in understanding and applying of EH.

Layer 2: Relationship between teams & their Boundary Partners (BPs) to support BPs' changes in KAP.*



2. EH/OH initiatives in SE Asia

- 6 EH/OH activities in SE Asia implemented in the last decade investigated from secondary data and checked for :
 - EH/OH focus
 - Action research component/funded
 - Capacity building/curricula
 - Sustainability/external funding
 - Impact assessment
 - Scaling out demonstrated
 - Publications

Summary on initiatives focus and selected characteristics

Focus on & characteristics/ initiatives	.	..	...	....	.....	.....
Capacity building (general)	✓	✓	✓	✓	✓	✓
Curricula		✓			✓	✓
Action research funded	✓	✓		✓	✓	
Eco Health	✓	✓	✓	✓	✓	
One Health	✓	✓				✓

Summary on initiatives focus and selected characteristics cont.

Focus on & characteristics/ initiatives	.	..	...	....	.....	.....
External funded/co-funded	✓	✓	✓	✓	✓	✓
M & E tool	✓	✓	✓	✓	✓	✓
Impact assessment		✓				
Scaling out		✓				✓
Peer reviewed publication	✓	✓		✓	✓	

EH/OH initiatives – lessons learned

- Most of initiatives focused on capacity building, others mainly on research or both
- Research results generated using an OH/EH approach (EIDs or ZEIDs), but quality varying
- Limited number of peer reviewed papers
- High number of “locally” published papers
- Several networks established


EH/OH initiatives

– final reflections and what needs more attention

- Impact assessments on the OH/EH approach
 - What has really changed and how
 - How can we document these changes
 - How sustainable are these changes
 - Demonstration of the value added – more case studies
- Decrease donor dependency
 - increase co-funding proportion or self funding
 - collaboration between existing initiatives, joint proposal or grants, attracting several donors
 - Could be also a donor demand, current CGIAR reform a good example

EH/OH initiatives

– final reflections and what needs more attention

- Scaling out
- Stronger private sector engagement
- Policy translation
 - Policy briefs, national/regional for a
 - 1st Regional EH Symposium (June 2013  2nd in 2015?)
- Move from projects to programs
- Various initiatives need to operate more coordinated



ComAcross



EcoEID

- INDOHUN
- THOHUN
- VOHUN
- MYOHUN

EHRCS



GHI



Swiss TPH



Emerging Pandemic Threats Program

PREDICT • RESPOND • PREVENT • IDENTIFY



ACIAR



Modified from Hung Nguyen, 2013

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